

$W^+W^- + \text{dijet}$ to next-to-leading order in QCD

vendredi 22 juillet 2011 17:45 (15 minutes)

The process $W^+W^- + \text{dijet}$ is of great importance at the LHC, not only in itself but also as a primary background to moderately heavy Higgs production in association with two jets. I present next-to-leading order results for this process calculated recently using unitarity methods. By looking at specific kinematic distributions, I will show how the reduced theoretical uncertainty can improve the reliability of discriminating the Higgs signal over this background.

Auteurs principaux: ZANDERIGHI, Giulia (University of Oxford); MELNIKOV, Kirill (Johns Hopkins University); M. RONTSCH, Raoul (University of Oxford); MELIA, Tom (University of Oxford)

Orateur: M. RONTSCH, Raoul (University of Oxford)

Classification de Session: QCD

Classification de thématisation: QCD